

# **Electronic Structure of $\text{La}_{2-2x}\text{Sr}_{1+2x}\text{Mn}_2\text{O}_7$ Studied by Angle-Resolved Photoemission Spectroscopy**

Zhe Sun  
University of Colorado

Interplay between the charge, spin, and lattice degrees of freedom in  $\text{La}_{2-2x}\text{Sr}_{1+2x}\text{Mn}_2\text{O}_7$  results in a variety of unconventional physical properties. In this talk, I will show experimental results of electronic structure of  $\text{La}_{2-2x}\text{Sr}_{1+2x}\text{Mn}_2\text{O}_7$  ( $x=0.36, 0.38$ ) from BL12, including Fermi surface, band structure, and temperature evolution, and then briefly discuss the physical properties.